	Application No.	Applicant(s)
	10/534,120	LINEMANN ET AL.
Notice of Allowability	Examiner	Art Unit
		4740
	Ling-Siu Choi	1713
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>05/26/2006</u> .		
2. The allowed claim(s) is/are <u>1 and 3-11</u> .		
3. Acknowledgment is made of a claim for foreign priority un	der 35 U.S.C. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some* c) ☐ None of the:		
<ol> <li>Certified copies of the priority documents have</li> </ol>	been received.	
<ol><li>Certified copies of the priority documents have</li></ol>	been received in Application No	·
<ol><li>Copies of the certified copies of the priority doc</li></ol>	cuments have been received in this i	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER' es reason(s) why the oath or declara	S AMENDMENT or NOTICE OF tion is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	
(a) including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the O	ffice action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawing he header according to 37 CFR 1.121(c	ngs in the front (not the back) of
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT F	sit of BIOLOGICAL MATERIAL n FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. Note the AL MATERIAL.
Attachment(s)	5 May 21 4 4 5 1 5	
1. Notice of References Cited (PTO-892)	<u> </u>	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	<ol> <li>Interview Summary Paper No./Mail Date</li> </ol>	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08	8), 7. 🛭 Examiner's Amendm	nent/Comment
Paper No./Mail Date4.   Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme	nt of Reasons for Allowance
5. Diological material	9. ⊠ Other <u>Supplemental</u>	Office Action.

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	Application No.	Applicant(s)		
Supplemental	10/534,120	LINEMANN ET AL.		
Office Action Summary	Examiner	Art Unit		
	Ling-Siu Choi	1713		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tin ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on	·			
· <u> </u>	2a) This action is <b>FINAL</b> . 2b) This action is non-final.			
3) Since this application is in condition for allowan	•			
closed in accordance with the practice under E.	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.		
Disposition of Claims				
4) Claim(s) is/are pending in the application	٦.	•		
4a) Of the above claim(s) is/are withdraw	n from consideration.			
5) Claim(s) is/are allowed.				
6) Claim(s) is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction and/or	election requirement.			
Application Papers				
9)☐ The specification is objected to by the Examiner				
10)⊠ The drawing(s) filed on <u>05 May 2005</u> is/are: a)[		ov the Examiner.		
Applicant may not request that any objection to the		-		
Replacement drawing sheet(s) including the correction				
11) The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:				
1. Certified copies of the priority documents have been received.				
2. Certified copies of the priority documents have been received in Application No				
3. Copies of the certified copies of the priority documents have been received in this National Stage				
application from the International Bureau				
* See the attached detailed Office action for a list of	of the certified copies not receive	d.		
Attachment(s)				
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)		

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## **DETAILED ACTION**

This Office Action is in response to the Response and Amendment filed May 26,
 Claims 2 and 13 were canceled and claims 1 and 3-12 are now pending.

## Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CAR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr.Thomas F. Roland on June 8, 2006.

3. The application has been amended as follows:

In Specification, page 7, between line 6 and line 7, insert the following subtitle:

--BRIEF DESCRIPTION OF THE DRAWING--;

Cancel claim 12 without prejudice.

## Allowable Subject Matter

4. Claims 1 and 3-11 are allowed.

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5. The following is an examiner's statement of reasons for allowance:

The present claims are allowable over the closest reference: Langstein et al. (US 2002/0086959 A1≅US 6,846,885 B2).

A an initiator (I)  B a catalyst (K)  C a cocatalyst (CoK)  wherein the cocatalyst (CoK) is an agent which releases the polymerization active center from its counterion generated by the reaction between the catalyst (K) and the			
C a cocatalyst (CoK) wherein the cocatalyst (CoK) is an agent which releases the polymerization active			
wherein the cocatalyst (CoK) is an agent which releases the polymerization active			
, , ,			
center from its counterion generated by the reaction between the catalyst (K) and the	wherein the cocatalyst (CoK) is an agent which releases the polymerization active		
	center from its counterion generated by the reaction between the catalyst (K) and the		
initiator (I)			

(summary of claim 1)

A process for the cationic polymerization of C <sub>3-10</sub> monomers in the presence of a				
ca	talyst system comprising			
Α	an initiator (I)			
В	a catalyst (K)			
С	a cocatalyst (CoK)			
ce	nerein the cocatalyst (CoK) is an agent which releases the polymerization active nter from its counterion generated by the reaction between the catalyst (K) and the tiator (I)			

(summary of claim 10)

Langstein et al. disclose a process to prepare isoolefin copolymer in the presence of zironium halides, hafnium halides, or mixtures thereof and organic nitro compounds in a solvent suitable for cationic polymerization, wherein the solvent is halogenated hydrocarbon or a mixture of halogenated hydrocarbon and non-

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halogenated hydrocarbon; and the organic nitro compound is R-NO<sub>2</sub> with R is  $C_{6-24}$  - cycloaryl (abstract; [0011]-[0012]; claims 1-11). Thus, Langstein et al. do not teach or fairly suggest a cationic catalysis system comprising an <u>initiator (I)</u>, a catalyst (K), and a cocatalyst (CoK), wherein the cocatalyst (CoK) is an agent which releases the polymerization active center from its counterion generated by the reaction between the catalyst (K) and the initiator (I).

In light of the above discussion, it is evident as to why the present claims are patentable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-1098.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be reach on 571-272-1114.

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...ING-SUI CHOI

.: FIMARY EXAMINER

June 5, 2006

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